

Doutoramento em Território, Risco e Políticas Públicas

The differential approach in disaster risk transfer: a strategy for reducing vulnerability to climate threats. 2021.07982.BD, Funded by FCT | Ongoing

Cristian Camilo Fernández Lopera

Supervisors: José Manuel Mendes and Eduardo Jorge Barata.

Research Question

How can risk transfer improve Disaster Risk Management policies in Colombia to reduce socioeconomic vulnerability to climate-related hazards?

General Objective

To generate a risk transfer model that incorporates the differential approach on territorial units of the regions Pacífica, Caribe or Insular of Colombia to reduce socioeconomic vulnerability to climate-related hazards.

Specific Objectives

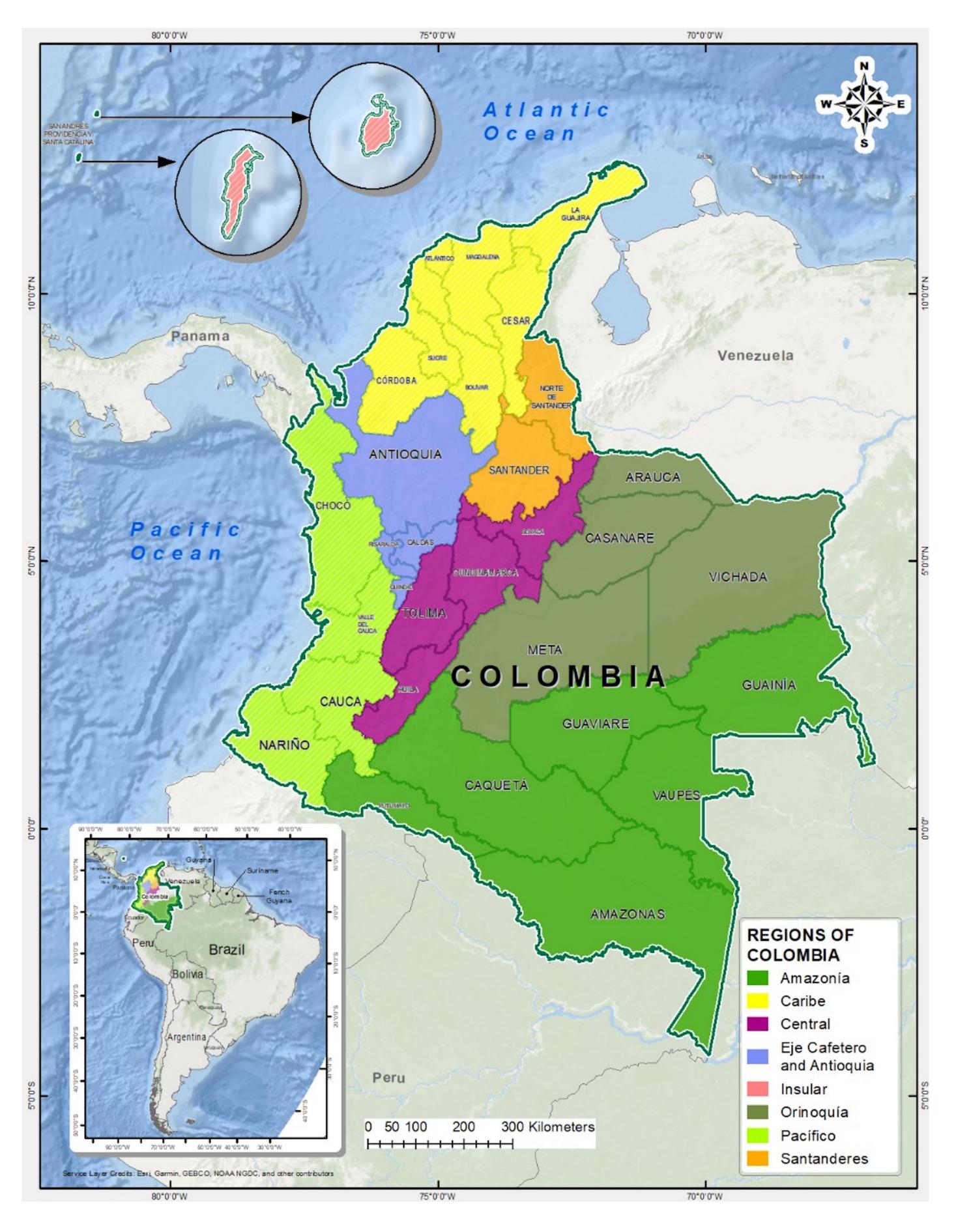
- a) To develop the concept of differential risk transfer. This contributes to 2030 Sustainable Development Goals (SDGs) 11 and 5.
- b) To prioritize the territorial units of the regions Pacífica, Caribe or Insular susceptible to the implementation of a Climate Risk Transfer Mechanism (CRTM). Contributes to SDGs 13, 11 and 5.
- c) To know the perception of the prioritized territorial units about the implementation of a CRTM. Contributes to SDG 13.
- d) To generate a differential risk transfer model using prioritized territorial units as a case study. Contributes to SDGs 13, 11 and 5.

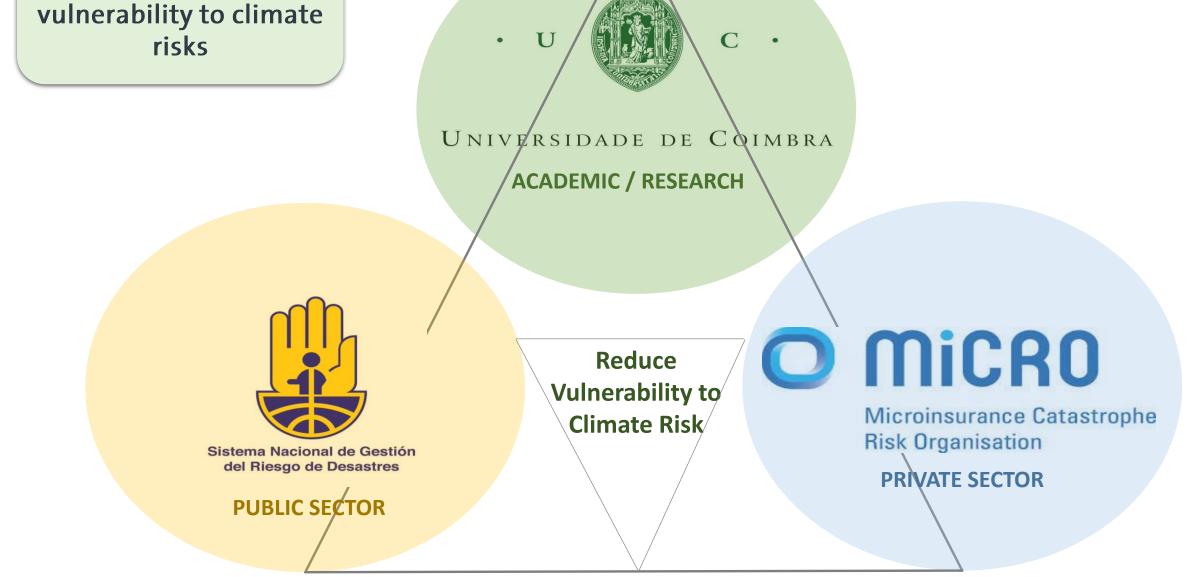
Multi-sectoral approach for reducing



Case Study

The regions Pacífica, Caribe and Insular are the most affected by climate-related disasters. Twelve territorial units: present the highest socioeconomic vulnerability to climate-related disasters in Colombia.





Theoretical Framework

- Disasters are not natural. Their construction/deconstruction depends on human development models: Inequality contributes to increasing disaster risk.
- The differential approach recognizes characteristics like gender, ethnicity and lifecycle during the assessment of socioeconomic vulnerability as a contribution to comprehensive disaster risk management and risk transfer.

Research Methods

Small group discussions

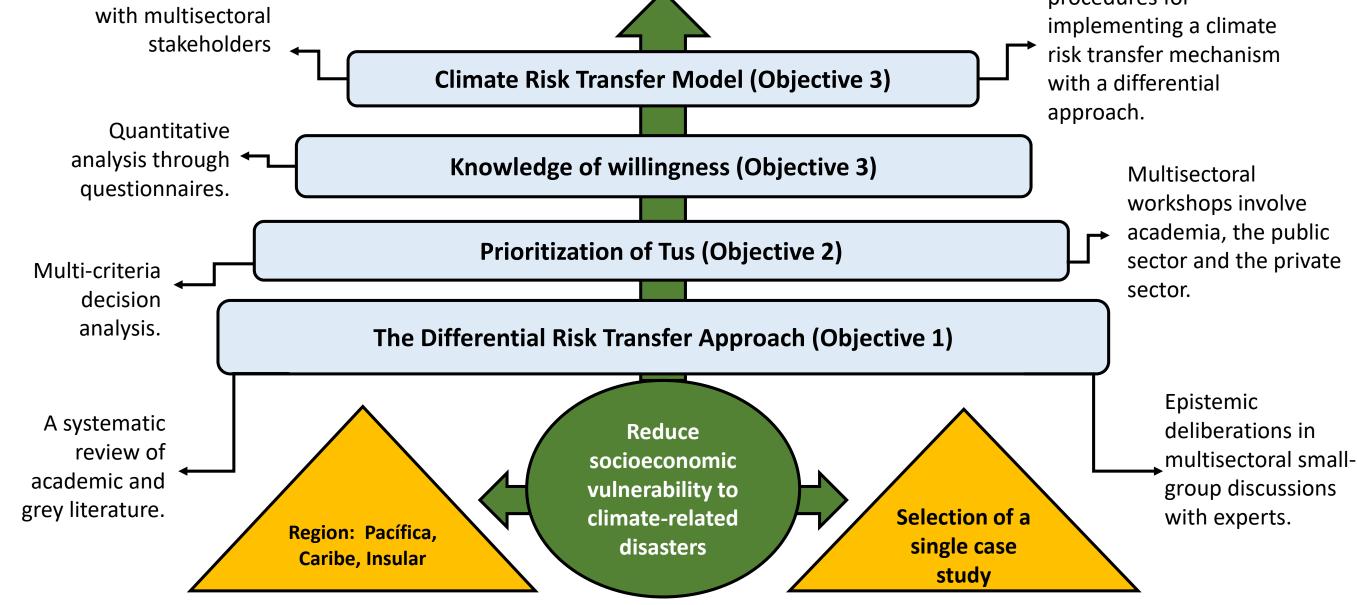
ces.uc.pt

THE DIFFERENTIAL RISK TRANSFER

In-depth analysis of procedures for

Publications

Fernández, C.C. (2021). Financial protection for the disaster risk management in Latin America (La protección financiera para la gestión del riesgo en América Latina). *Journal of Latin American Studies on Disaster Risk Reduction REDER, 4*(2), 22-35. https://doi.org/10.55467/reder.v4i2.48. (in Spanish).



Fernández, C.C. Mendes, J. Barata, E. (2022). *The differential risk transfer: A new approach for reducing vulnerability to climate-related hazards*. [Manuscript submitted for publication]. *Disaster Prevention and Management*.

Fernández, C.C. Mendes, J. Barata, E. Barragán, A. (2022). *Climate risk transfer public policies: An analysis of the Colombian case.* [Manuscript submitted for publication]. *Journal of Latin American Geography.*

Fernández, C.C. Mendes, J. Barata, E. Sandoval, V. (2022). *Prioritization of areas for implementing inclusive climate risk transfer mechanisms: Colombia as a case study.* [Manuscript submitted for publication]. *International Journal of Disaster Risk Science.*

